Claim 4, line 1, change "A modified" to --Modified--; lines 1-10, delete "capable of raising new ... TNF α B cell epitope" and substitute therefor --according to claim 1--.

Claim 26, lines 3-4, delete ", preferably an immunologically ... HSP70 or interleukin".

Claim 27, lines 4-6, delete ", such as aluminium phosphate, ... dipeptide or iscom".

Claim 28, lines 3-7, delete "such as chronic inflammatory ... osteoporosis and asthma".

Claim 31, lines 2-3, delete ", such as retroviral expression vector".

Claim 32, lines 2-3, delete ", e.g. subcutaneous, intramuscular or intradermal".

33. (Amended) The use of antibodies raised against a modified $TNF\alpha$ molecule by administering a vaccine as defined in [according to] claim 27[, preferably monoclonal antibodies] in a doagnostic test for $TNF\alpha$.

- 34. (Amended) Diagnostic use of antibodies <u>raised</u> against a modified $TNF\alpha$ molecule as defined in claim 1 [according to claim 33].
- 35. (Amended) A method of testing human body fluids for the presence of TNF α which comprises contacting a composition containing antibodies raised against the modified TNF α according to claim 1 with a sample of human body fluid and determining whether said antibodies bind to TNF α in said sample.

36. (Amended) A [diagnostic] method for <u>diagnosing</u> TNF α related diseases employing an in vitro immunoassay to detect TNF α in human body fluids <u>by use of antibodies raised against a modified</u>
TNF α molecule as defiend in claim 1.

Claim 37, lines 3-4, delege ",e.g. using avidin/biotin technology".

Claim 38, line 1, insert --in human beings-- after "diseases";

lines 3-4, delete "an animal, including".

39. (Amended) A method for the use [Use] of a modified TNF α molecule according to claim 1, comprising preparing [for the preparation of] a medicament for the treatment or prevention of diseases the pathophysiology of which is at least partially due to TNF α release or activity from a modified TNF α molecule according to claim 1.

Add the following new claims:

- -- 40. Modified human TNF α molecule according to claim 26, wherein the adjuvant molecule is an immunologically active adjuvant.
- $^{\circ}$ 41. Modified human TNF α molecule according to claim 26, wherein the adjuvant molecule is GM-SCF, HSP70 or interleukin.
- 42. A vaccine according to claim 27, wherein the pharmaceutically acceptable adjuvant is aluminum phosphate, aluminum hydroxide, calcium phosphate, muramyl dipeptide or iscom.
- 43. A vaccine according to claim 28, wehrein the diseases chronic inflammatory diseases, cancer, disseminated sclerosis, diabetes, psoriasis, osteoporosis and asthma.
- 44. A vaccine according to claim 43, wherein the chronic inflammatory diseases are rheumatoid arthritis, and inflammatory bowel diseases.
- 45. A vaccine according to claim 44, wherein the inflammatory bowel disease Crohn's disease Colitis Ulcerosa.
 - 46. A vaccine according to claim 31, wherein the viral expression vector is a retroviral expression vector.